

ABSTRACT

A method for reducing random access memory (RAM) of an IC in display devices includes transforming a digital signal of a graphic data of three original colors (R, G, B) to digital signals of Y : Cb : Cr; taking one sample from two sample ratios of Y : Cb : Cr (4 : 2 : 0) or Y : Cb : Cr (4 : 2 : 2); storing in the RAM of a driving IC to reduce the RAM usage (with compressible data); then transforming the Y : Cb : Cr signals to three original colors (R, G, B) signal format to output image data, wherein Y represents brightness signal, and Cb and Cr represent color signals.